

#### STANDARD AMATEUR RADIO PRODUCTS, INC. P.O. Box 48480 NILES, ILLINOIS 60714

(773) 763-0081 phone

(773) 763-3377 fax

StdAmat@aol.com e-mail

#### STANDARD DEALERS

Amateur Elect Supply 5710 W. Good Hope Road Milwaukee, WI 53223 (800) 558-0411 (414) 358-0333

Amateur Elect Supply 621 Commonwealth Ave Orlando, FL 32803 (800) 327-1917 (407) 894-3238

Ham Radio Outlet 1509 N. Dupont Hwy #7 New Castle, DE 19720 (800) 644–4476 (302) 322–7092

Ham Radio Outlet 2210 Livingston Street Oakland, CA 94606 (800) 854–6046 (510) 534–5757

Ham Radio Outlet 8400 E Lliff Ave. #9 Denver, CO 80231 (800) 444–9476 (303) 745–7373

the Ham Station 220 N Fulton Avenue Evansville, IN 47719 (800) 729–4373 (812) 422–0231

Lentini Comm. 21 Garfield St Newington, CT 06111 (800) 666-0908 (860) 666-6227

Universal Radio 6830 Americana Parkway Reynoldsburg, OH 43068 (800) 431-3939 (614) 866-4267 Amateur Elect Supply 28940 Euclid Ave. Wickliffe, OH 44092 (800) 321–3594 (216) 585–7388

RAD-COM Radio 3300 82nd Street, Suite E Lubbock, TX 79423

(806) 792-3669

Ham Radio Outlet 1939 W. Dunlap Ave. Phoenix, AZ 85012 (800) 444-9476 (602) 242-3515

Ham Radio Outlet 5375 Kearny Villa San Diego, CA 92123 (800) 854–6046 (619) 560–4900

Ham Radio Outlet 6071 Buford Hwy Atlanta, GA 30340 (800) 444-7927 (770) 263-0700

The Communication Source 2713 Galleria Dr. Arlington, TX 76011

(817) 640-1663

For Hams Only 12123 1/2 Frankstown Rd. Pittsburgh, PA 15235 (800) 854-0815 (412) 793-3939

Burk Electronics 35 N. Kensington LaGrange, IL 60525

(708) 482-9310

Amateur Elect Supply 14100 U.S. 19 N. Unit 124 Clearwater, FL 34624 (888) 226–7388 (813) 539–7348

Burghardt Ctr 182 N. Maple Watertown, SD 57201 (800) 927-4261 (605) 886-7314

Ham Radio Outlet 933 N Euclid Street Anaheim, CA 92801 (800) 854–6046 (714) 533–7373

Ham Radio Outlet 510 Lawrence Exp Sunnyvale, CA 94086 (800) 854–6046 (408) 736–9496

Ham Radio Outlet 224 N Broadway Salem, NH 03079 (800) 444–0047 (603) 898–3750

Henry Radio 2050 S. Bundy Drive Los Angeles, CA 90025 (800) 877–7979 (310) 820–1234

R & L Electronics 1315 Maple Ave Hamilton, OH 45011 (800) 221–7735 (513) 868–6399

Michigan Radio 23040 Schoenherr Warren, MI 48089 (800) 878-4266 (810) 771-4711 Amateur Elect Supply 1072 N. Rancho Dr. Las Vegas, NV 89106 (800) 634-6227 (702) 647-3114

Eli's Amateur Radio 2513 S.W. 9 Avenue Fort Lauderdale, FL 33315

(305) 525-0103

Ham Radio Outlet 11705 SW Pacific Hwy Portland, OR 97223 (800) 854–6046 (503) 598–0555

Ham Radio Outlet 2492 W. Victory Blvd Burbank, CA 91506 (800) 854–6046 (818) 842–1786

Ham Radio Outlet 14803 Build America Dr. Woodbridge, VA 22191 (800) 444–4799 (703) 643–1063

North Olmsted Radio 29460 Lorain Rd North Olmsted, OH 44070

(216) 777-9460

Communications Data 1051 Main Street St. Joseph, MI 49085 (800) 382-2562 (616) 982-0404

Ham Radio Toy Store 117 W. Wesley Wheaton, IL 60187

(708) 668-9577

Over

ELKEL Ltee 2435 Boul Des Recollets Trois Revieres, Quebec CANADA G8Z 4G1 (819) 378-5457

Radio Depot 2135 Sheridan Rd. Suite A Bremerton, WA 98310 (800) 291-9067 (360) 377-9067

Texas Towers
1108 Summit Ave Suite 4
Plano, TX 75074
(800) 272-3467
(214) 422-7306

C and S Sales 1245 Rosewood Deerfield, IL 60015 (800) 292-7711 (847) 541-0710

Burnaby Radio Comm Ltd. 4257 E. Hastings St. Burnaby, BC V5C 2J5 CANADA (604) 298-5444 Jun's Electronics 5563 Sepulveda Blvd Culver City, CA 90201 (800) 882-1343 (310) 390-8003

Ray's Amateur Electronics 1701-G N. Main Street High Point, NC 27262 (800) 845-5338 (910) 883-6038

Norham Radio Inc. 4373 Steeles Avenue W. North York, Ont. M3N 1V7 CANADA (416) 667-1000

Electroic Equipment Bank 323 Mill Street Vienna, VA 22180 (800) 368–3270 (703) 938–3350 Ross Distributing 78 S. State Preston, ID 83263

(208) 852-0830

Hardin Electronics 5635 E. Rosedale Fort Worth, TX 76112 (800) 433-3203 (817) 429-9761

Amateur Radio Supply 5963 Corson Ave South 140 Seattle, WA 98108 (800) 426-6528 (206) 767-3222

Associated Radio Comm 8012 Conser Overland Park, KS 66204 (800) 497-1457 (913) 381-5900 RT Systems 8207 Stephanie Drive Huntsville, AL 35802 (800) 723-6922 (205) 882-9292

Barry Electronics 540 Broadway New York, NY 10012

(212) 925-7000

International Radio 5001 NW 72nd Avenue Miami, FL 33166

(305) 594-4313

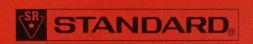


Continuous full coverage: 50–904.995 MHz.

- Receiving mode: Amplitude Modulation (AM), Narrow Band Frequency Modulation (N-FM), Wide band Frequency Modulation (W-FM).
- High precision/high stability PLL synthesizer.
- Microprocessor controlled.
- 100 storage channels for quick frequency reference—direct entry.
- 120 volt 60 Hz wall transformer included.

- · Ideal for the service bench.
- Compact size—perfect for portable field use.
- Equipped with a LCD spectral display scope used for evaluating signal strength and tracking down nearby interfering signals.
- · Extremely well built to industry standards.
- Its versatility/portability allows the technician to evaluate other equipment.
- Supplied with a telescoping antenna.

For more information on this and other STANDARD products, contact your nearest dealer or call STANDARD Amateur Radio Products at: (312) 763-0081. Specifications, price, and features are subject to change without obligation or notice. All products carry a ONE YEAR limited warranty.





## SPECIFICATIONS CCR708A COMMUNICATIONS TEST RECEIVER

Frequency Range	50-904.995 MHz
Type of Emission	AM FM Narrow± 5.0 kHz FM Wide± 75 kHz
Intermediate Frequenc	y
Sensitivity	
Frequency Stability	Less than ± 0.0002% (at 454 MHz)
Squelch Sensitivity	Less than 0.2uV (FM Narrow)
Selectivity	More than 30dB (2 Signal method)
Spurious Response	
Frequency Step	
Storage Channels	
Audio Output	External Speaker jack
Antenna Connector Im	pedance50 Ohms BNC (telescoping antenna included)
Current Drain	
Power Requirement	
Power Supply (include	d)
Grounding	Negative
Operating Temperature	e Range0 to 50 degrees C
Dimensions (excluding	projections)
Weight	4.63 lb (including antenna and stand)

STANDARD reserves the right to discontinue products and change specifications at any time without incurring any obligation to incorporate new features into products previously sold. All products carry a full one year limited warranty from time of purchase.

## WHAT TWIN-BAND RADIO'S SPEAKER-MIC DISPLAYS BOTH BANDS WHILE DELIVERING UP TO 50 WATTS?





## SPECIFICATIONS STANDARD C5718DA TWIN BAND 146/440 MHz MOBILE TRANSCEIVER WITH FULL REMOTE CONTROL MICROPHONE

#### **GENERAL:**

Frequency Range (5KHz steps, minimum)

Receiver ......146 MHz: 110 to 199.995 MHz\*

(including AM aircraft)

440 MHz: 250 to 499.995 MHz\*

Unsurpassed intermod rejection.

Built in Antenna Duplexer.

Dual-frequency receive; two VHF, two UHF, or VHF/UHF.

Memories:

40 memories (20 per band); stores frequency, offsets and

CTCSS tones.

200 memory channel option, CMU182.

CTCSS Encode\Decode standard.

Frequency steps, 5, 10, 12.5, 15, 20, 25, 50 and 100 Khz.

Full Duplex cross band operation with CTCSS tones.

Paging\Coded squelch.

DTMF autopatch dialing, 10 memories per band, 15 digits.

Eight kinds of scan, including priority and CTCSS.

Back-lit Keypad and Display

Auto mute opposite band, three settings (-6, -12 and -18dB).

Cooling fan built-in.

Size: 5.51"W 1.57"H 5.31"D

Weight 2.2 lbs

Mobile bracket and power cord (2M) included.

MARS and CAP modification available (permit required).

#### RECEIVER:

Receiver	Double Conversion Superhe
First IF	146 MHz: 44.95 MHz
	440 MHz: 23.05 MHz
Second IF	.455 KHz

Sensitivity (within amateur bands)

0.158 uV for 12dB SINAD

Squelch Sensitivity Threshold ..... 0.112uV

Selectivity (2 signal method)

VHF: 60dB UH

UHF: 55dB

Signal-to-noise ratio (at 0.5uV input)

30 dB or better

Audio Output ......2 Watts into 4 ohms, 10% THD

Operating Temp Range .. +60 to -20 deg C

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Standard Amateur Radio Products, Inc.

P.O. Box 48480 Niles, Illinois 60714 tel (312) 763-0081

fax (312) 763-3377

#### TRANSMITTER:

#### STANDARD PIONEERS ANOTHER FIRST!! THE C5718DA IS PACKET READY.

Designed with packet in mind. Out-of-the-box high-speed, 9600 baud, interface for both VHF and UHF bands. Just connect your TNC to the C5718DA and you're on the high speed packet network. Also, operates at 1200 and 2400 baud equally well.

#### **OPTIONAL ACCESSORIES**

Additional accessories available from your dealer.

- CRC5700 removable front panel with twin frequency display.
- CAW570 split cable for mic.
- CAW571 2M mic extension cable.
- CAW572 4M mic extension cable.
- CAW573 2M extension cable for the front panel (CRC5700).
- CAW574 4M extension cable for the front panel (CRC5700).
- CAW575 extra 12 volt power cable
- CAX5700 blank front cover
- CMB5700 mount for CRC5700
- CMB5710 mounting bracket for CMB5700
- CMP842 Mirophone used with CRC5700
- CMU181 40 channel chip
- CMU182 200 channel chip
- CSK12 Matching Speaker



<sup>\*</sup> Specifications are guaranteed within the U.S. amateur bands. STANDARD reserves the right to discontinue products and change specifications at any time without incurring any obligation to incorporate new features into products previously sold. All products carry a full one year limited warranty from time of purchase.

November 1993



# **Everything** you need's in the speaker/mic... and it delivers 50 watts, too!

A full featured 2-meter rig that fits anywhere, yet puts out a full 50 watts as well — that's Standards new C1208DA! With all controls and the large liquid crystal display in the speaker/mic, this rig can mount anywhere — no more compact car woes! The rig's under the

seat, behind the dash, or in the trunk (with optional extension cable) — all you need is in your hand. All this, plus it's packet ready (up to 9600 baud) and includes wide range (100-200 and 250-520 MHz) receive, including AM aircraft.

#### HERE'S WHAT THE C1208DA GIVES YOU:

#### **FREQUENCY RANGE:**

Transmit: 144-148 MHz; CAP/MARS

mod available

Receive: 100-199.995 plus 250-519.995

MHz, FM or AM

#### POWER OUTPUT:

50, 10 or 3 W, selectable

#### **INTERMOD REJECTION:**

None better!

#### **MEMORIES:**

100; stores frequency, offsets and CTCSS tones

#### CTCSS ENCODE/DECODE:

Built in!

#### **DTMF AUTO DIALING:**

10 memories of 15 digits each

#### **PACKET READY:**

1200, 2400 and 9600 baud!

#### **FREQUENCY STEPS:**

5, 10, 12.5, 15, 20, 25, 50 or 100 kHz

#### SCANNING:

6 modes, including priority and CTCSS

#### **AUDIO MUTE:**

-10, -20, -30 or -40 dB, programmable

All this, yet the C1208DA is only 5.5x1.2x5.8 inches, weighs only 1.65 lbs., and includes a quiet built-in cooling fan. Mobile mounting bracket and 9-foot (3 meter) power cord also included.

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For more information on the C1208DA or any Standard products, please contact your Standard dealer. Specifications, features and price are subject to change without obligation or notice.



STANDARD Amateur Radio Products, Inc. P.O. Box 48480 Niles, Illinois 60714 Tel. (312) 763-0081 Fax (312) 763-3377

#### C1208DA ACCESSORIES:

CAW560 Split cable for mic

CAW561 6' (2 meter) mic extension

able

CAW562 12' (4 meter) mic extension

cable

CSA12 External speaker

CAW575 15' (5 meter) power cable CAW576 9' (3 meter) power cable



#### SPECIFICATIONS STANDARD C1208DA 2 METER BAND MOBILE TRANSCEIVER WITH FULL REMOTE CONTROL MICROPHONE

#### **GENERAL:**

Frequency Range

Receiver: ...... 110 to 199.995 MHz

250 to 519.995 MHz

(including AM aircraft)

Unsurpassed intermod rejection.

Built in Antenna Duplexer for both bands

100 memories: stores frequency, offsets, and CTCSS

tones

CTCSS Encode\Decode standard.

Frequency steps:5, 10, 12.5, 15, 20, 25, 50 and 100 kHz

Paging and Coded squelch

DTMF autopatch dialing:

10 memories per band,

15 digits

Six kinds of scan: ...... including priority and CTCSS

Back-lit Keypad and Display

Cooling fan built-in.

Weight: ..... 1.65 lbs

Mobile bracket and power cord 9 ft. (3M) included MARS and CAP modification available permit required

#### TRANSMITTER:

Power output ...... 50 Watts

3W Low, 10W Medium

Modulation ..... Reactance

Spurious Emissions ... Greater than 60dB

Nominal Frequency Deviation ...... 3.5 kHz

Maximum Frequency Deviation ...... 5.0 kHz

Frequency Stability .....+/- 0.001%

Transmit Power Consumption (approx) with

13.8 +/-15% VDC input:

TX High: 10.5 A

#### STANDARD PIONEERS ANOTHER FIRST!! THE C1208DA IS PACKET READY.

Designed with packet in mind. Out-of-the-box high-speed, 9600 baud, interface for 2 Meters. Just connect your TNC to the C1208DA and you're on the high speed packet network. Also, operates at 1200 and 2400 baud equally well.

#### RECEIVER:

Receiver ...... Double Conversion

Superhet

Second IF ......455 kHz

Sensitivity (amateur bands) ..... 0.158 uV for 12dB

SINAD

Squelch Sensitivity Threshold: .. 0.112uV

Selectivity (2 signal method): .... 60dB

Signal-to-noise ratio: ...... 30 dB or better

10% THD

Operating Temp Range: .....+60 to -20 deg C

#### **OPTIONAL ACCESSORIES**

Additional accessories available from your dealer

- CAW560 Split cable for mic
- CAW561 6 ft. (2M) mic extension cable
- CAW562 12 ft. (4M) mic extension cable
- CAW575 Extra 12 volt power cable 15 ft. (5M)
- CAW576 Extra 12 volt power cable 9 ft. (3M)
- CSK12 Matching Speaker

(cable lengths are approximate)

For more information on this and other STANDARD products, please contact your nearest STANDARD dealer.

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tel (312) 763-0081

fax (312) 763-3377

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WORLD'S SMALLEST TRI-BAND HANDHELD C568A

# A GRIP. STYLE:

Tri-Band **Antenna** 

> Two Volume & Squelch knobs for better control

Only STANDARD has six twin receive & transmit configurations: (2m-70cm) (70cm-2m) (2m-2m) (70cm-70cm) (2m-23cm) and (70cm-23cm) with main band on left of right side.

Easy to use large keypad

Same battery style as C178A: CNB171 7.2v 700mAh

CNB172 12v 600mAh CNB173 7.2v 1000mAh

**Specifications** 

Frequency Coverage: RX VHF 110-199 MHz, RX UHF 340-499 MHz TX 144-148 MHz, RX 1200-1300 MHz TX 438-450 MHz,

- TX 1240-1300 MHz
   Freq steps, 5, 6.25, 10, 12.5, 15, 20, 25 and 30 kHz
- Selectable Sub-Band TX Mute
- Built in CTCSS Encode/Decode
- Versatile Scanning: Pause, Busy or Hold
- Scan Memory Channel Lock-in
- CTCSS Tone Search
- DTMF Paging and Coded Squelch
- 4 Auto Dial Memories
- Automatic Power Off
- · Battery Save, adjustable
- AM Aircraft receive (VHF)
- Programmable Key
- · 4 power levels: H ,M ,L & EL (1.2 GHz -EL power only)
- Direct Frequency Input with KeyPad
- Cross Band Repeat
- Unsurpassed Intermod Rejection
- Full Cross-Band Duplex operation

ACCESSORIES
All STANDARD Speaker/Mic.
All STANDARD Headsets 200 Channel Memory Chip



Introducing the C568A TRI-BAND Transceiver.
This Mini-HT has the superior RF features you expect from STANDARD: unparalleled intermod rejection, outstanding extended receive, and now the added excellence of a 30 selection menu driven TRI-BAND

The C568A puts the power of a full featured handheld radio at your finger tips. Switch from transmitting on 2 Meters to 70 CM with the touch of the "MAIN" button, listen to the melody,...or...The C568A uses CW code tones, with the MAIN band identifier, to distinguish the MAIN band: dit dit dah for VHF, and dit dit dah for UHF - an excellent reminder for your MAIN band. While using the UHF side of the C568A, make the easy switch from 70 CM to 1.2 GHz. by pushing the number 2 on the keypad. The "smart" software in the C568A automatically puts the number 12 on the display, so that you can continue inputting your frequency selection.

Don't be deceived by the size of the C568A. It may be small, but there is nothing left out. STANDARD has designed a full size keypad with buttons that are easy to read and use. Also, note STANDARD'S optional output power of 5 watts, with the 12 volt battery or adapter, EL power for 1.2 GHz.





STANDARD is the world's largest manufacturer of VHF-UHF Amateur Radio Equipment. For further information contact your Standard dealer or call (312)763-0081 FAX (312)763-3377 Standard Amateur Radio Products, Inc. P.O. Box 48480 Niles, Illinois 60714

\* Modifications for MARS/CAP transmit require an appropriate license.

Specifications, features and price are subject to change without obligation or notice.



#### SPECIFICATIONS C568A 2 Meter / 70cm / 23cm Hand-held

#### **GENERAL:**

Frequency band:
AM programmable and auto detect for VHF aircraft band
Antenna: 1/4 wavelength 2M & 70 cm,
1/2 wavelength 23 cm
Frequency step, minimum: 5 kHz 2M/70cm 10 kHz 23cm
Modulation type:F3
External input voltage range:5 to 16 VDC
Microphone input impedance:600 ohms Standard NiCad battery pack:7.2 V, 700 mAh (CNB171)
Size (approximate):
5.3"H x 1.85"W x 1.34"D (with batt., w/o protrusions)
Weight (approximate):
without battery and antenna: 6.7 oz
with battery and antenna:13.76 oz
Memory channels: 40 + VFO and CALL, 200 ch with CMU161
Sub-audible tone: 39 CTCSS encode/decode included
Paging function, also DTMF squelch: Yes
Battery Save, 8 steps - 0.25/0.5/0.75/1/1.5/2/3/5 seconds
Auto Power-off mode:
Unsurpassed intermod rejection Yes

#### TRANSMITTER:

Frequency range: 144-147.995 / 438-449.995 MHz
1240.0-1299.990 MHz
Frequency deviation: 3.5 KHz (nominal), 5.0 KHz (max.)
Frequency modulation type: Reactance
Internal microphone: Electret capacitor
Power output 2M/70cm (13.8V)
5W (H), 2.5W (M), 350mW (L) approx.
Standard battery, 7.2V 700 mAh: (H) 2.5 Watts approx
Power output 23 cm 35mW approx
Spurious signal ratio: greater than -60dB
Current drain, Transmit (13.8 VDC input):
1.3A 5W, 950mA 2,5W, and 480mA 350mW approx
MARS and CAP mods: Yes
Available from your dealer (copy of license req'd)
(00)

#### RECEIVER:

Receiver: Double Conversion Supe	rhet
First IF: VHF 21.80 MHz UHF 23.05 N	ИHz
Second IF: 455 KHz Left 450 F	Right
Sensitivity (ham bands): 0.16 uV for 12dB SIN	NAD
Signal-to-noise ratio (at 0.5uV input):	etter
Squelch sensitivity: 0.	
Speaker impedance: 8 0	hms
Audio output (into 8 ohms): 250mW, 10%	THD
Current drain (squelched two bands):6	8mA
(battery save mode two bands):	mA
Single band 37mA VHF, 48mA UHF, 52mA 2	3cm
Scan: Pause, Busy and Hold 7 scan modes: 1 MHz, Ba	and,
Program, Memory, Block memory, Memory scan memory	ry
andTone frequency	
Dual watch: VFO and Call channel, Memory Channel 00 of	or
Memory scanning, VFO and Memory Channels	

**OPTIONAL ACCESSORIES:** 

- CAW150 Mobile power cable with cigarette lighter plug
- CAW151 Base station power cable
- CAW152 Mobile cable, cigarette lighter plug & noise filter
- CAX03 Bottom cover
- CBT171 Battery case, (6 cells)
- CHP111 Headset microphone
- CHP150 VOX microphone
- CLC560 Std carrying case for CBT171 & CNB171 NiCad battery
- CLC561 Large carrying case for CNB172/173 NiCad battery
- CLC562 Hard carrying case for CBT171 & CNB171
- CLC555GN Green pouchCLC555OR Orange pouch
- CMB112 Mobile bracket
- CMB600 Helmet clip for CHP150
- CMC150 Mobile charger for CNB171 and CNB173 battery
- CMP111 Speaker microphone
- CMP113 Tie pin microphone
- CMP115 Mini speaker microphone
- CMP123 Ear-Microphone
- · CMU161 200 channel memory
- CNB171 7.2V 700 mAh NiCad battery
- CNB172 12V 600 mAh NiCad battery
- CNB173 7.2V 1100 mAh NiCad battery
- CSA181A Rapid Desk charger

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> Standard Amateur Radio Products, Inc. P.O. Box 48480, Niles Illinois 60714 PH (312) 763-0081 Fax (312) 763-3377

**AMATEUR RADIO SERIES** 

## C558 TWIN BANDER

VHF/UHF FM TWIN BAND HANDHELD TRANSCEIVER SUPER-COMPACT SIZE TWIN BANDER
DTMF PAGING/CODED SQUELCH/CLONE
TWIN BAND SCANNING
CROSS-BAND OPERATION

**BUILT-IN AM RECEIVER** 

**OPTIONAL 200-CHANNEL MEMORY AVAILABLE** 



## C558 TWIN BANDER

#### VHF/UHF FM HANDHELD TRANSCEIVER

STANDARD's new 2 Meter-70 CM twin band handheld; the C558 offers new features that go beyond the competition. These new advanced features are both practical and convenient to the user. The C558's design includes an extremely advanced engineering circuit that reduces current

drain from the battery.

The C558 measures only 130 mm (5.33")/H x
55 mm (2.17")/W x 31 mm (1.22")/D
including the battery case which holds 6 type AA
batteries. When the battery case is removed the
C558 is extremely small measuring only 74 mm
(2.91") high. Twin band operation, VHF and UHF,
are constructed into this compact body which
provides features that are advanced over the
competition. Make no mistake, this is the most
advanced handheld of all. The C558 weighs only
355 g (12.52 oz.) including the 6 AA batteries.

#### ADVANCED CONTROL AND OPERATION

A separate volume and squelch control is provided for smooth operation of each band. The operation of the STANDARD's twin band handheld is far superior to other dual band radios that provide single and common use of these controls. The LCD readout allows the visual observation of operating conditions of each band at a glance. Frequency, signal strength, memory channel numbers and other pertinent information are individually displayed on the LCD for each band. With the VHF frequency always displayed on the left of the LCD and the UHF always on the right, at a glance, you will always have complete operating information covering both VHF/UHF bands. The C558 can be used as a mono-band radio by turning off one side of the radio, conserving battery power, VHF or UHF your choice.

#### OLD THIS RADIO IN YOUR HAND TO APPRECIATE IT'S POWER



#### SHOWN IN ACTUAL SIZE



- Twin band antenna
- Function key
- PTT switch
- Belt clip
- Battery release
- **B** LCD window
- Lamp key
- Squelch off key
- Numeric/Functional keyboard
- Internal speaker/microphone
- CBT151GY battery tray (provided with radio)
- TX/Busy indicator
- Waterproof cap for external mic/speaker jacks
- WHF volume control
- VHF squelch control
- UHF volume control
- UHF squelch control
- Rotary channel selector
   Power switch



#### SIMULTANEOUS RECEPTION

Simultaneous reception is possible on both VHF and UHF bands with the C558. It is also possible to receive on one band (sub-band) while transmitting on the main band (Full-duplex). Also provided is an audio mute feature that automatically turns off the sub-band audio output while transmitting on the main band. This feature is very desirable when working from one band to another.

#### 3-WAY FREQUENCY SELECTION



Operating frequencies may be entered or changed in three ways with the C558:

- 1) By direct entry from the keyboard
- 2) By rotation of the rotary channel selector
- 3) By the frequency step with the up/down keys

#### **BUILT-IN DTMF PAGING/CODED SQUELCH**

The versatile of the C558 allows you to communicate with friends without interference from other stations. When called by paging mode, the C558 notifies the call station by beep sounds and displays the code number of the opposite station which made a call. Also, it is possible to call a single friend or use the group call function to call a prearranged group. The C558 allows you to combine Tone Squelch and Code Squelch functions. The combination virtually assures your receiver remains quiet until a call is made from a transceiver specifically set to the same code and CTCSS Frequency. This feature is especially useful when you do not wish to be interrupted by an unwanted signal. Optional CTN160 CTCSS unit is required.

#### INDIVIDUAL SCANNING

The C558 offers simultaneous reception of VHF and UHF bands also offers a simultaneous scanning capability. Scan mode can be programmed individually by band. Even if one band receives a signal and stops scanning during twin scan, the other band scanning continues. Three modes and five types of scanning are available with the C558.

#### 200-CHANNEL MEMORY AVAILABILITY

A memory cartridge (CMU160, 4K EE-PROM) is provided with the radio and 40 channels of information (20 channels per band) can be stored. Optional CMU161 16K EE-PROM cartridge offers 200 channel memory capacity. These memory cartridges require no battery for backup. Several of these cartridges can be acquired making memory in the C558 available for different area you may visit. In each memory channel various information such as priority channel, paging code and tone frequency are storable with the transmit frequency. Memory protection function disables the normal change and deletion functions and assures the security of the memory data you have already programmed.

#### IMPROVED DISPLAY INFORMATION

2 3 program menus are available and displayed on the LCD when you need to make a program entry. This new feature allows you to make and easy and quick access to your desired mode.

#### INDIVIDUAL AUDIO OUTPUT

When an external speaker is connected to the C558 you can assign either audio output to the internal speaker and the other output to an external speaker. Normally both of the VHF/UHF audio outputs come from the internal speaker when no external speaker is connected.

#### OTHER FEATURES

1 0 different DTMF sequences of up to 1 5 digits can be stored into the C558. Transmit delay time and transmit interval are controllable.

Cross-band Repeater function is provided with the C558 enabling to communicate between 2 Meter and 7 0 CM bands simultaneously.

DTMF Clone Mode enables you to copy the contents of one C558 to another.

When DTMF Decode Mode is activated, the C558 decodes any paging codes that you may receive at paging operation.

The C558 allows you to temporally switch back to the initial mode without missing data you have programmed.

With the provided DC adaptor, the C558 accepts a wide voltage range, 6 to 16 volts, and is suitable for direct connection to the automobile 12 volts system. 12 volts DC input also provides 5 watt RF output.

7 frequency step: 5, 10, 12.5, 20, 25, 50 and 100 kHz are selectable so you can quickly find your desired frequency.

Capable of receiving Aviation band.





#### **OPTIONAL ACCESSORIES**



O CBT151GY

Battery case (holds 6AA batteries)

**(B)** CNB150

Small size Ni-Cd battery pack (7.2 V, 400 mAh)

OCNB151GY Standard size Ni-Cd battery pack (7.2 V, 700 mAh)

O CNB152

Hi-power Ni-Cd battery pack (12 V, 600 mAh)

(B) CNB153

Long-life Ni-Cd battery pack (7.2 V, 1,000 mAh)

CSA160E/A Desk top rapid charger (220 V AC/120 V AC)

CSA181E/A Desk top rapid charger (220 V AC/120 V AC) G CWC150E/A Wall charger for CNB150/151GY/153 (220 V AC/120 V AC)

CWC151K

Wall charger for CNB152 (220 V AC)

CMC150 **CLC550** 

Mobile charger for CNB150/151GY/153 (220 V AC/120 V AC) Carrying case (for use with CBT151GY or CNB151GY)

Carrying case (for use with CNB152 or CNB153)

**CLC551** CLC555GN

Pouch (Green)

CLC555 OR

Pouch (Orange)

**CMB111** 

Mobile bracket

M CTN160

CTCSS unit

TRANSMITTER

environmental conditions.)

CMU160 **CMU161**  4K bit memory cartridge for 40 channel memory 16K bit memory cartridge for 200 channel memory

CAW150

Mobile power supply cable-adaptor

(P) CAW151

Base power supply cable

CMP111

Standard size mic-speaker Small size mic-speaker

**CMP115 CMP113** 

Tie-pin type microphone and earphone

CHP111

Headset with PTT switch and boom microphone

**CHP150** 

Headset with PTT/VOX switch and boom microphone (Powered type)

#### **SPECIFICATIONS**

GENERAL:		VHF section	UHF section		
Frequency Range	C558	144 to 147.995 MHz	430 to 439.995 MHz		
<b>Specifications</b>	C558A	144 to 147.995 MHz	438 to 449.995 MHz		
guarantee range)	C558S	144 to 145.955 MHz	430 to 439.995 MHz		
<b>Circuitry</b>		Synthe	esized		
Type of Emission		F	3		
Microphone Input Impedar	nce The American	600	)Ω		
Operating Voltage Range	de sono en sonato y valuação To	6 to 16 V DC (	with CMA181)		
<b>Operating Temperature Ra</b>	nge (1997) 🛣	—10°C to	) +60°C		
Current Drain	TX Hi (13.8 V)	1.2 A	1.3 A		
	TX Mid (13.8 V)	900 mA	1.0 A		
3. 2. 3.	TX Hi/Mid (7.2 V)	850 mA	1.0 A		
	TX Lo Siring	3 400 mA 💉 🗀	480 mA		
	Standby (mono)	36 mA	45 mA		
	Standby (twin)	70 1	mA		
	Bat. Save (mono)	17 mA	18 mA		
Bat. Save (twin)		25 mA			
	Auto-Power Off	6 0.2 mA	0.2 mA		
Channel Spacing	C 19 6 . 11 . 1	20 kHz			
Frequency Step		5, 10, 12.5, 20, 25, 50, 100 kHz			
Speaker Impedance		- 8Ω			
Dimensions [H×W×D mm		$55 (2.17) \times 130 (5.12) \times 31 (1.22)$			
Weight (including antenna & batteries)		355 g (12.5 oz.)			
Tone Burst Frequency		1,750 Hz			

For further information, see your dealer or contact.



Standard Amateur Radio Products, Inc.

P.O. Box 48480 Niles, IL 60648

(312) 763 - 0081 fax: (312) 763 - 3377

TRANSMITTER:			VHF			UHF		
RF Power Output	Battery type	Hi	Mid	Lo	Hi	Mid	Lo	
	CBT151GY	2.0W	2.0W	0.35W	1.5W	1.5W	0.35W	
	CBT150	2.5W	2.5W	0.35W	2.0W	2.0W	0.35W	
	CNB151GY	2.5W	2.5W	0.35W	2.0W	2.0W	0.35W	
	CNB153	2.5W	2.5W	0.35W	2.0W	2.0W	0.35W	
	CNB152	5.0W	2.5W	0.35W	5.0W	2.5W	0.35W	
Modulation Method 🐣		18 3	Rea	ctance	Modula	tion		
Spurious Emission	A DOLLAR COLOR SOLD SE	28 X		60	dB			
Maximum Deviation 🔏		40.00	- ,	±5.0	kHz			
Harmonic Distortion (at 1	kHz)	Less than 5%						
Frequency Stability (-1	0°C to +60°C)	0.001%						
Frequency Setting Accuracy			±1.0 kHz ±1.5 kHz					
RECEIVER:			VHF sec	tion		JHF se	tion	
Circuitry		_	Double Conversion Superheterodyne					
Intermediate Frequency	1st IF	21.80 MHz 23.05 MHz						
	2nd IF	100	450 kl		2	450 k		
Sensitivity (12 dB SINA)		0.158 μV			112			
Threshold Squeich Sens		0.112 µV						
Selectivity (2-signal met		55 dB 50 dB						
Audio Power Output		200 mW at 10% distortion						
S/N Ratio at 0.5 µV Inpu	1 7 2 2 2 2 2 2 2 2 2	25 dB						
BATTERY L		CNB1	-	B151GY	CNB15		NB153	
depends on operating 8		2.5 hr	s 4	.5 hrs	3 hrs		6.5hrs 🧍	

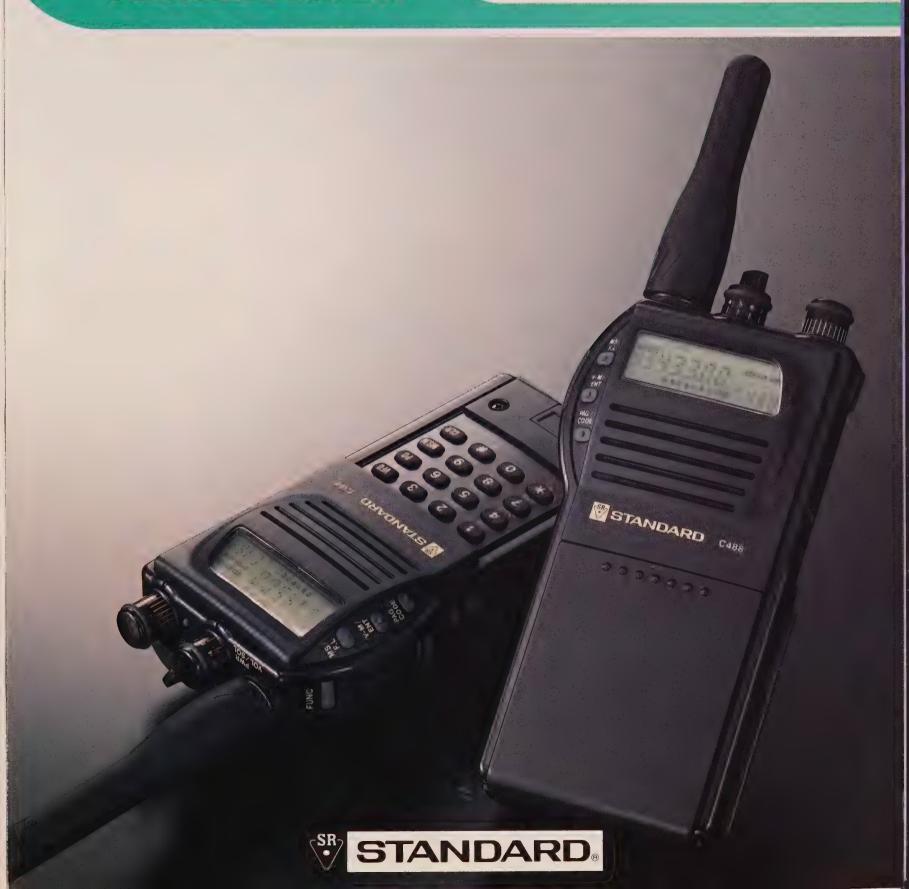
PERFORMANCE SPECIFICATIONS ARE NOMINAL, UNLESS OTHERWISE INDICATED, AND ARE SUBJECT TO CHANGE WITHOUT NOTICE.

TX:RX:Standby=1:1:8/Hi-power mode

### C188/C488 SERIES

# VHF/UHF FM HANDHELD TRANSCEIVER

- •LEAN BODY AND LIGHT WEIGHT
- •200 CHANNEL MEMORY CAPACITY
- •CODE SQUELCH/TONE SQUELCH
- •WAKEUP FEATURE
- •VARIOUS SCAN MODES
- **•SUB-VFO FEATURE**
- **•NO BACK-UP BATTERY REQUIRED**



# C188/C488 SERIES VHF/UHF FM HANDHELD TRANSCEIVER



Again, STANDARD has successfully designed and built a new series of handheld transceivers with powerful enhancements that still exhibit simple operation.

The C188/C488 VHF or UHF FM handheld allows you to appreciate either simple or sophisticated operation. Compared to our earlier models, the operation has become even easier. The performance, features and simple operation of the C188/C488 with its new enhancements are more notable than any other handheld transceivers.

#### **NEW HANDHELDS BORN FROM HUMAN ENGINEERING**

#### HIGH EFFICIENCY AND WIDE VOLTAGE OPERATION

Enhancements in the basic engineering design, now yield greater overall radio performance. This is especially noteworthy in the new design concepts of "HEC" High Efficiency Circuitry improvements.

STANDARD's new "HEC" achieves high performance at lower operating voltages. Efficiency of the RF-power verses voltage at the final amplifier stage of the C188/C488 is approximately 20% improved as compared to our previous handheld transceivers.

As a result, the C188/C488 works from a 4.8 volts DC source as the rated voltage. This allows the handheld transceiver to operate from 4×AA batteries.

#### **LEAN BODY AND LIGHT WEIGHT**

The C188/C488 are trully small handhelds, providing just-fit operation in your palm. It measures 122 mm (4.8")/H×58 mm (2.3")/W×26.5 mm (1.04")/D. Weight is only 280 g (9.88 oz.) including antenna and 4×AA batteries. The lean body and light weight allow you to go anywhere putting it into your shirt pocket.

#### UNSURPASSED MEMORY CAPACITY

The C188C/C488 uses a tiny 16 K EE-PROM memory cartridge which requires no battery for backup. 200 channel memory capacity allows you to individually store your desired frequencies together with specific modes of \*tone encode, \*tone squelch, paging, code squelch, repeater, offset frequency, \*tone frequency and scanning. \*Optional CTN181 CTCSS unit is required.

#### **IMPROVED DISPLAY INFORMATION**

Information displayed on the LCD window of the C188/C488 has made it even easier to operate our new radios. Offset frequency, tone squelch frequency, paging code, APO (Automatic Power Off) status and wakeup code are shown along with memory channel number and carrier frequency.

#### BUILT-IN KEYBOARD UNDER THE SLIDE-COVER

Once the user stores all the information into the memory channels by the keyboard underneath the slide-cover, operation of the C188/C488 can be done simply by pressing the required keys on the front panel.



#### WAKEUP FEATURE TURNS THE RADIO ON AUTOMATICALLY

The C188/C488 has a special feature called wakeup mode. You can receive a specific call from another station even if the power switch is in the off position. Current drain in the wakeup mode is only 3 mA (battery save mode is 12 mA). In the wakeup mode, a beeping sound is generated upon receiving a call. The wakeup feature utilizes DTMF signalling and a specific wakeup code is provided in a programmable 4 digit code. In this mode, a "W" is displayed on the LCD even when the power switch is in the off position. Once the power switch is turned on, the wakeup mode is cancelled. The transmit frequency and wakeup code must coincide between both radios. A simple wakeup mode and PTT sends wakeup code over the air.

The C188/C488 transmits the wakeup code information within 3 seconds after transmission of the carrier. This feature can be used with the APO (Auto Power Off) feature and results in additional battery saving.

#### CODE SQUELCH/TONE SQUELCH

The versatile C188 and C488 Transceivers permit you to combine Tone Squelch (Option) and Code Squelch functions. The combination virtually assures your receiver remains quiet until a call is made from a transceiver specifically set to the same code and CTCSS frequency.

#### **EASY AND QUICK** TO ADDRESS/STORE MEMORY CHANNEL

To simplify and manage the large memory capacity of the C188/C488, a new innovative method of storing memory channels is innovated. Let the radio's microcomputer do the work for you. Vacant memory channels are automatically scanned and located. This feature makes it very convenient to automatically save a large number of channels. If you desire, individual memory channel assignment is a thing of the past.

#### DTMF MEMORY

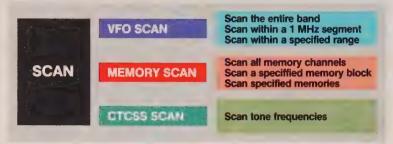
The C188/C488 is designed with 10 different DTMF memories, each accommodating up to 15 digits. With just the touch of a key, these pre-programmed DTMF memory locations can be activated. Redial capability is included and all features may be used without keying the transmitter.

#### **SUB-VFO FEATURE**

The C188/C488 temporarily enables you to alternately switch between two different VFO frequencies. It is convenient to search for an unoccupied frequency with one VFO while being able to return to the other VFO for transmitting.

#### **VARIOUS SCAN MODES**

The C188/C488 offers 3 modes and 7 types of scans:



#### **ACCESSORIES PROVIDED WITH RADIO**

ITEM/VERSION	C188/C488	C188S/C488S	C188A/C488A
BELT CLIP	•	•	•
HAND STRAP	•	•	•
CBT181	•	•	
CNB184			•
CWC150A			•
CCA181			•
CTN181			•
CMU181			•
CMU182	•	•	
OWNER'S MANUAL	•	•	•



0	<b>Function</b>	kev

PTT switch

Call/Wakeup key

Lamp key

Squelch off key

Belt clip

Memory scan/Frequency lock

VFO/Memory channel/Enter

Paging/Code squelch key

10 LCD

- Internal Speaker/microphone
- Numeric/Function keyboard -\*
- Memory cartridge
- Antenna connector
- External microphone jack
- External speaker jack
- Power switch/Volume control
- TX/Busy indicator
- Rotary channel selector

Key	Function (activated when press with FUNC key)
1	Toggles repeater mode on/off
2	Recalls offset frequency at repeater mode
3	Reverses TX and RX frequency at repeater mode
4	Toggles tone squelch on/off
5	Recalls tone frequency
6	Selects information indicated in sub-display
7	Toggles dual watch on/off
8	Initiates scanning
9	Recalls 4-digit code for wakeup
0	Recalls set mode
VFO DT.C/A	Recalls DTMF code
PO DT.M/B	Toggles DTMF monitor on/off
MS.M STEP/C	Recalls frequency step
CLR.L/D	Toggles PTT lock on/off
* APO	Toggles automatic power off mode on/off
# SAVE	Toggles battery saver on/off



#### **OPTIONAL ACCESSORIES**



A CBT181 Battery case (holds 4AA batteries)
B CBT182 Battery case (holds 5AA batteries)

CNB181 Standard size Ni-Cd battery pack (4.8 V, 700 mAh)
CNB182 Hi-power Ni-Cd battery pack (9.6 V, 600 mAh)
CNB183 Long-life Ni-Cd battery pack (6 V, 1,100 mAh)
CNB184 Mid-power Ni-Cd battery pack (6 V, 700 mAh)
CSA181E/A Desk top rapid charger (220 V AC/120 V AC)

CWC150E/A \* Wall charger for CNB181/183/184 (220 V AC/120 V AC)
CWC151K \* Wall charger for CNB182 (220 V AC)

CWC151K \* Wall charger for CNB182 (220 V AC)
CMC150 \* Mobile charger for CNB181/183/184

OCCA181 Charging adaptor for CWC150/151 and CMC150

(CMA181 Mobile power supply cable-adaptor Standard size mic-speaker

M CMP115 Small size mic-speaker
N CMP113 Tie-pin type mic-speaker

CHP111 Headset with PTT switch and boom microphone

P CHP150 Headset with PTT/VOX switch and boom microphone (Powered type)

O CTN181 CTCSS unit

CMU181
CMU182
4K bit memory cartridge for 40 channel memory
16K bit memory cartridge for 200 channel memory
Cartridge for 200 channel memory
Cartridge for 200 channel memory
Cartridge for 200 channel memory
Cartridge for 40 channel memory
16K bit memory cartridge for 40 channel memory
16K bit memory cartridge for 40 channel memory
16K bit memory cartridge for 40 channel memory
16K bit memory cartridge for 40 channel memory
16K bit memory cartridge for 40 channel memory
16K bit memory cartridge for 200 channel memory

CLC182 Carrying case (for use with CBT182 or CNB182/183/184)

CMB111 Mobile bracket

\* Optional CCA181 charging adaptor is required.

#### **SPECIFICATIONS**

CENEDAL		C100 Carica	OADD Dawie			
GENERAL:	0100 (0100	C188 Series	C488 Series			
Frequency Range	C188/C488	144 to 145.995 MHz	430 to 439.995 MHz			
(Specifications guarantee range)	C188S/C488S	144 to 145.995 MHz	430 to 439.995 MHz			
	C188A/C488A	144 to 147.955 MHz	438 to 449.995 MHz			
Circuitry		Synth	esized			
Type of Emission		16	16F3			
Operating Voltage Range		4.0 to 15.0 V DC/6.0 to 16.0 V DC (with CMA181)				
Operating Temperature Ran		-10°C to	0 +60°C			
Current Drain	TX Hi (13.8 V)	1,100 mA	1,200 mA			
	TX Mid (13.8 V)	950 mA	950 mA			
	TX Hi/Mid (4.8 V)	750 mA	750 mA			
	TX Lo (13.8/4.8 V)	300 mA	300 mA			
	Standby	40 mA	42 mA			
	Battery Save	12 mA	12 mA			
	A.P.O.	2.5 mA	2.5 mA			
	Wakeup (w/B.S.)	5.0 mA	5.0 mA			
	Wakeup (w/APO)	0.9 mA	0.9 mA			
Channel Spacing		25 k	Hz			
Frequency Step		5, 10, 12.5,	20, 25 kHz			
Frequency Stability (-10°C	to +60°C)	±0.0	01%			
Tone Burst Frequency		1,750 Hz (C188/C188	S, C488/488S only)			
Speaker Impedance		8 ohms				
Microphone Input Impedanc		600 ohms				
* Dimensions [H×W×D mm	(inch)]	$122 (0.48) \times 58 (0.23) \times 26.5 (0.11)$				
* Weight		280 g (9.88 oz.)				
Battery life	with CBT181	3.5 hrs	3.5 hrs			
TX:RX:Standby=1:1:8 TX high power mode	with CBT182	3.5 hrs	3.5 hrs			
Battery saver off	with CNB181	6.5 hrs	6 hrs			
Battery life depends on operating	with CNB182	3.5 hrs	3 hrs			
and environmental conditions.	with CNB183	8 hrs	8 hrs			
	with CNB184	5.5 hrs	5.5 hrs			

C188 Series	C488 Series
44.95 MHz	44.95 MHz
455 kHz	455 kHz
0.158	μV
0.112	μV
55 dB	55 dB
30 dl	В
150 m	W
	44.95 MHz 455 kHz 0.158 0.112 55 dB

TRANSMIT	ΓER:	C188 Series C488 Series		ries			
RF Power Output		Hi	Mid	Mid Lo Hi Mid Lo			
	with CBT181	1.2W	1.2W	0.15W	1.2W	1.2W	0.15W
	with CBT182	1.5W	1.5W	0.15W	1.5W	1.5W	0.15W
	with CNB181	1.2W	1.2W	0.15W	1.2W	1.2W	0.15W
	with CNB182	5.0W	2.5W	0.15W	5.0W	2.5W	0.15W
	with CNB183/184	2.5W	2.5W	0.15W	2.5W	2.5W	0.15W
Modulation Method		Reactance Modulation					
Spurious Emission		60 dB					
Harmonic Distortion (at	1 kHz)	±3%					
Hum and Noise Level		40 dB					
Maximum Deviation		±5.0 kHz					
* With CDT101 h.	Man						

<sup>\*</sup> With CBT181 battery case

PERFORMANCE SPECIFICATIONS ARE NOMINAL, UNLESS OTHERWISE INDICATED, AND ARE SUBJECT TO CHANGE WITHOUT NOTICE.

For further information, see your dealer or contact.



Standard Amateur Radio Products, Inc.

P.O. Box 48480 Niles, IL 60648

(312) 763 - 0081 fax: (312) 763 - 3377

# Here's your new 2-meter hand-held...

STANDARD'S C178A is a superb full-featured 2-meter rig — and it transmits and receives on 438-450 MHz as well! You get up to 5 watts output on 144-148 MHz, plus 50 mW out on the 70 cm band — plenty for hamfests or to work into nearby repeaters! All this, with Standard's unsurpassed performance

#### LOOK AND COMPARE:

and reliability.

- 110-174 + 320-475 MHz receive (AM programmable for aircraft)
- 144-148 + 438-450 transmit (expandable for CAP, MARS)
- Best intermed rejection of any hand-held!
- Up to 5W out (4 programmable power levels) on 2 meters;
   50 mW on 70 cm
- 40 memories, plug-in expandable to 200
- Dual frequency watch (4 modes)
- 7 scan modes; all programmable for Pause, Busy or Hold
- CTCSS encode/decode built-in
- Ten 15-digit DTMF memories
- DTMF Paging/Coded Squelch

Plus ... 2.3-15 VDC operation; 8-step battery save; call channel; one-touch squelch off; auto power off; PTT and keyboard lock; and much, much more!

For further information on the C178A or any of the many other fine Standard products, please contact your nearest Standard dealer today. Specifications, features and price are subject to change without obligation or notice.

STANDARD Amateur Radio Products, Inc. P.O. Box 48480
Niles, Illinois 60714
Tel. (312) 763-0081 Fax (312) 763-3377

...that also works on 70 cm!

#### C178A Accessories:

CAW150 Mobile power cable with cigarette lighter plug

CAW151 Base station power cable CAW152 Mobile cable, cigarette lighter plug and noise filter

CAX03 Bottom cover

CBT171 Battery case (6 cell)

CBT175 Battery case (2 cell)

**CHP111 Headset microphone** 

CHP150 VOX microphone

**CLC171 Standard carrying case** 

CLC172 Large carrying case CLC555GN Green pouch

CLC555OR Orange pouch

CMB112 Mobile bracket

CMB600 Helmet clip for CHP150

CMC150 Mobile charger

CMP111 Speaker microphone

CMP113 Tie pin microphone

CMP115 Mini speaker microphone

CMU161 200 channel memory

CNB171 7.2V 700 mAh NiCad battery

CNB172 12V 600 mAh NiCad battery CNB173 7.2V 1100 mAh NiCad bat-

toru

CSA181A Rapid desk charger





#### SPECIFICATIONS C178A 2 METER-70 cm HAND-HELD

GE	NE	RA	L
----	----	----	---

Frequency band:
Frequency step, minimum: 5 kHz  Modulation type: F3  External input voltage range: 2.3 to 15 VDC  Microphone input impedance: 600 ohms
Standard NiCad battery pack: 7.2 V, 700 mAh (CNB171) Size (approximate):
<ul> <li>4.88"H x 2.2"W x 1.2"D (with batt., w/o protrusions)</li> <li>Weight (approximate):</li> <li>without battery and antenna:</li> <li>with battery and antenna:</li> <li>12.5 oz</li> <li>Memory channels:</li> <li>40 + VFO and CALL, 200 ch with CMU161</li> </ul>
Sub-audible tone: CTCSS encode/decode included Paging function, also DTMF squelch:
Auto Power-off mode: Yes Clock timer: Display time, ON timer and OFF timer Unsurpassed intermod rejection: Yes

#### TRANSMITTER:

Frequency range: 144-147.995 / 438-449.995 MHz
Frequency deviation: 3.5 KHz (nominal), 5.0 KHz (max.)
Frequency modulation type: Reactance
Internal microphone: Electret capacitor
Power output 2 Meter (12V) 5W (H), 2.5W (M), 350mW (L)
standard battery, 7.2V 700 mAh:(H) 2.0 Watts
Power output 70 cm:50mW max
with CBT175 battery case:20mW
Spurious signal ratio: greater than -60dB
Current drain, Transmit (13.8 VDC input):
1A 5W, 800mA 2,5W, and 500mA 350mW approx
MARS and CAP mods:Yes
Available from your dealer (copy of license req'd)

#### RECEIVER:

Receiver:	Double Conversion Superhet
First IF:	21.80 MHz
Second IF:	455 KHz
Sensitivity (ham bands	s): 0.16 uV for 12dB SINAD
Signal-to-noise ratio (a	at 0.5uV input): 30dB or better
	0.1 uV

Speaker impedance:	8 ohms
Audio output (into 8 ohms):	
Current drain (squelched):	40mA
(battery save mode):	18mA
Scan: Pause, Busy and Hold:	7 scan modes: 1 MHz,
Band, Program, Memory, Block	memory, Memory scan
memory and Tone frequency	
Dual watch: VFO and Call char	nel, Memory Channel 00
or Memory scanning	

#### **OPTIONAL ACCESSORIES:**

- CAW150 Mobile power cable with cigarette lighter plug
- CAW151 Base station power cable
- CAW152 Mobile cable, cigarette lighter plug & noise filter
- CAX03 Bottom cover
- CBT171 Battery case, (6 cells)
- CBT175 Battery case (2 cells)
- CHP111 Headset microphone
- CHP150 VOX microphone
- CLC171 Standard carrying case for CBT171 and CNB171 NiCad battery
- CLC172 Large carrying case for CNB172 and CNB173 NiCad battery
- CLC555GN Green pouch
- CLC555OR Orange pouch
- CMB112 Mobile bracket
- CMB600 Helmet clip for CHP150
- CMC150 Mobile charger for CNB171 and CNB173 battery
- CMP111 Speaker microphone
- CMP113 Tie pin microphone
- CMP115 Mini speaker microphone
- CMU161 200 channel memory
- CNB171 7.2V 700 mAh NiCad battery
- CNB172 12V 600 mAh NiCad battery
- CNB173 7.2V 1100 mAh NiCad battery
- CSA181A Rapid Desk charger

For more information on this and other STANDARD products, please contact your nearest STANDARD dealer.

Standard Amateur Radio Products, Inc.

P.O. Box 48480 Niles, Illinois 60714 tel (312) 763-0081

fax (312) 763-3377

Specifications are guaranteed within the U.S. amateur bands. All specifications (other than F.C.C. type acceptance specifications) are nominal. STANDARD reserves the right to discontinue products and change specifications at any time without incurring any obligation to incorporate new features into products previously sold. All products carry a full one year limited warranty from time of purchase. Revised January 7, 1994.

## BEHAM S

# 2 METERS IN YOUR SHIRT POCKET!



FCC APPROVAL PENDING

For more information on the C108A and other STANDARD products, please contact your nearest STANDARD dealer. Specifications, features and price are subject to change without obligation or notice.

Standard Amateur Radio Products, Inc. P.O. Box 48480
Niles, Illinois 60714
Tel. (312) 763-0081 Fax (312) 763-3377

Here's the tiniest hand-held Amateur transceiver ever offered! Standard's C108A is truly the rig you'll want to carry with you all the time. Its 200 mW output is ample for hamfests, picnics, conventions — or even for working nearby repeaters. With its 100-175 MHz receiver, you can also monitor the public service, marine and aircraft (AM detector) bands along with your favorite 2-meter frequencies.

#### JUST LOOK AT WHAT YOU GET WITH THE C108A:

- 100-174.995 MHz receive, FM or AM detector
- 200 mW Transmit Power
- 20 memories; stores frequency, offset and CTCSS tone
- CTCSS built-in; 23 tones available
- Scan modes: 1 MHz, Full Range, Memory, and Memory-Scan-Memory; programmable for Pause and Busy
- DC Power: 2 alkaline AA penlight cells

PLUS Battery Save and Auto Power Off, Keyboard Lock. The C108A measures only 2.3"x3.2"x1", weighs less than 5 oz.—get one for your shirt pocket today!

#### ACCESSORIES:

CHP111	Headset microphone
CHP150	VOX microphone
CLC401	Standard soft case
CLC402	Deluxe soft case
CMP111	Speaker microphone
CMP113	Tie pin microphone
CMP115	Mini speaker microphon
CNB401	NiCad battery pack
CSA401A	NiCad battery charger





#### **SPECIFICATIONS C108A Single Band FM HT 2 Meter**

#### **GENERAL:**

Frequency band:	2 Meters
Frequency range:	.RX 100-174.995 MHz
AM aircraft receive:	Yes
Frequency step, minimum:	5 kHz
Size (approximate): 3.1	5"H x 2.28"W x 0.98"D
Weight (approximate):	4.90 oz
Memory channels:	20
CTCSS encode:	23 tones
Unsurpassed intermod reje	ction: Yes

#### TRANSMITTER:

Frequency range: 144-147.995 M	1Hz
Frequency deviation: 3.5 kHz (nomin	al),
5.0 kHz (ma	ax.)
Frequency modulation type: Reactain	nce
Frequency stability:+/- 0.00	1%
Power output (3V):	2W
Spurious signal ratio: greater than -55	5dB
Current drain TX, 2 x AA batteries approx:0.2	22A
Internal tone frequencies available: 67.0, 7	1.9,
74.4, 77.0, 79.7, 82.5, 85.4, 88.5, 91.5, 94	4.8,
97.4, 100.0, 103.5, 107.2, 110.9, 114.8, 118	3.8,
123.0, 127.3, 131.8, 141.3, 151.4, 167.9	and
C	)FF

#### RECEIVER:

Receiver: Double Conversion Superhet
First IF: 21.80 MHz
Second IF:455 KHz
Sensitivity (ham bands): 0.158 uV
for 12dB SINAD
Squelch sensitivity threshold: 0.112uV
Selectivity (2 signal method):50dB
Signal-to-noise ratio (at 0.5uV input):30dB or
better
Audio output (into 8 ohms): 0.1 Watts 10% THD
Operating temperature range: +60 to -10 deg C

#### **OPTIONAL ACCESSORIES:**

- CHP111 Headset microphone
- CHP150 VOX microphone
- CLC401 Standard soft case
- CLC402 Deluxe soft case
- CMP111 Speaker microphone
- CMP113 Tie pin microphone
- CMP115 Mini speaker microphone
- CNB401 NiCad battery pack
- CSA401A NiCad battery charger

For more information on this and other STANDARD products, please contact your nearest STANDARD dealer.
Standard Amateur Radio Products, Inc.
P.O. Box 48480
Niles, Illinois 60714

tel (312) 763-0081 fax (312) 763-3377

**STANDARD** has done it again!

Great radios come in small packages. First came the C108A - the tiniest 2m radio - operates on 2AA batteries and fits in your shirt pocket.

Next, GREATNESS evolved into the C508A the DUAL BAND big brother to the C108A - it too, fits in your shirt pocket and operates on 2AA batteries, and more... The C508A has 280mW of output (comparable to low power of most HT's operating on a nicad battery pack) adequate power to hit most local repeaters with its helical designed antenna.

#### Take it anywhere.

The C508A is perfect for HAMFESTS, picnics, hiking, or while using your mobile rig in cross-band repeat mode, for quick access to a distant repeater. Be confident that your carrying the BEST amateur radio - you've got a STANDARD, STANDARD has exceptional RF features, incredible extended receive capabilities and solid transmitting performance.

#### **Specifications**

- Frequency Coverage: 100-180 MHz Approx. 340-400 MHz 400-480 MHz
- AM programmable for aircraft
- 60 memories + 2-VFO, 2-Call
- CTCSS 39 tones-Encode/Decode
- 22 menu selections
- RF squelch
- Freq steps, 5, 10, 12.5, 15, 20, 25, 30 and 50
- Scan types: Busy, Pause or Hold Scan: 1 MHz, Entire band, Program, Memory, Specific memory frequencies, Block and CTCSS
- PTT and Frequency lock
- Keyboard lock
- Tone burst: 1750 Hz
- APO: Auto Power Off
- Battery save: 4 steps
- Auto power off: adjustable
- Output power: 280 mW
- Operates from 3V "2-AA"
- Size approx: 2.28" W, 3.35" L, 0.98" D
- \* Weight approx: 5.65 oz

DUAL BAND ANTENNA

FRIP IT. LIVE IT. New Dual Band! Wide band HT! C508A

#### VHF & UHF IN YOUR SHIRT POCKET



#### ACCESSORIES

- CHP111 Headset microphone
- CHP150 VOX microphone
- CLC502 Standard soft case
- CMP111 Speaker microphone
- CMP113 Tie pin microphone
- CMP115 Mini speaker microphone
- CMP123 Ear speaker/mic
- CNB401 NiCad battery pack
- CSA401A NiCad battery charger



STANDARD is the world's largest manufacturer of VHF-UHF Amateur Radio Equipment. For further information contact your Standard dealer or call (312)763-0081 FAX (312)763-3377 Standard Amateur Radio Products, Inc. P.O. Box 48480 Niles, Illinois 60714

\* Modifications for MARS/CAP transmit require an appropriate license.

Specifications, features and price are subject to change without obligation or notice.





#### SPECIFICATIONS C508A Dual Band FM HT 2 Meter / 70 cm

#### **GENERAL:**

Frequency band:	2 Meters / 70 cm
Frequency range approx.: .	RX 100-180, 340-400
	400-480 MHz
AM aircraft receive	Yes
Frequency step: 5, 10, 12.5,	
Size (approximate):	. 2.28" W, 3.35" L, 0.98" D
Weight (approximate):	
Memory channels:	
CTCSŚ	
Menu driven:	
RF squelch	Yes
Unsurpassed intermod reject	
PTT and Frequency lock	
Keyboard lock	
Tone burst:	
APO:	

#### **OPTIONAL ACCESSORIES:**

- CHP111 Headset microphone
- CHP150 VOX microphone
- CLC502 Standard soft case
- CMP111 Speaker microphone
- CMP113 Tie pin microphone
- CMP115 Mini speaker microphone
- CMP123 Ear speaker/mic
- CNB401 NiCad battery pack
- CSA401A NiCad battery charger

#### TRANSMITTER:

Specifications are guaranteed within the U.S. amateur bands. All specifications (other than F.C.C. type acceptance specifications) are nominal. STANDARD reserves the right to discontinue products and change specifications at any time without incurring any obligation to incorporate new features into products previously sold. All products carry a full one year limited warranty from time of purchase. Revised April 15, 1995.

#### **RECEIVER:**

Receiver: Double Conversion Superhet
First IF:
Second IF:450 KHz
Sensitivity (ham bands):
less than 0.22uV for 12dB SINAD
Signal-to-noise ratio (at 0.5uV input):30dB or better
Squelch sensitivity thresholdless than 0.2 uV
Audio output (into 8 ohms): 0.1 Watts 10% THD
Current drain (squelched)
(battery save mode)11 mA approx.
Operating temperature range+60 to -10 deg C
Scan types:Busy, Pause or Hold
Scan: 1 MHz, Entire band, Program,
Memory, Specific memory frequencies,
Block and CTCSS
Battery save:4 steps

Auto power off: . . . . . . . . . . . adjustable

For information on this and other STANDARD products, please contact your nearest STANDARD dealer.

Standard Amateur Radio Products, Inc. P.O. Box 48480 Niles, Illinois 60714 PH (312)763-0081 Fax (312)763-3377

Bands...2, 70 cm, & 6 Meters ne compact package! What's the most compact, economical. full featured tri-band mobile? Standard's C5900DA! 6 Meters as well as 2 and 70 cm, with crossband repeat, remote operation with detachable front panel, or wireless remote control from your hand-held's DTMF pad! Plus 1200-9600 baud packet, priority hyper memories for your seven most used frequencies, and up- and down-load frequencies to the optional 200 channel extended memory chipwithout a computer! And there's so much more - just review the specifications below...



Great in the car...

On the road in the RV...



Big signal in the Ham Shack!



#### **OPTIONAL ACCESSORIES**

HTTP://WWW.8TDRADIO.COM

- CAW590 split cable for micCAW591 3M extension cable for LCD display
- CAW592 5M extension cable with connection for mic and speaker
- CAW593 8M extension cable with connection for mic and speaker
- CMB5900 mounting bracket
- for display CMU161 200 channel memory

Size: 5.51"W 1.57"H 6.81"D Weight=2.65 lbs.

#### **MEMORIES**

SCN M.S VM PO

- 80 memories (each side); stores frequency, offsets, CTCSS tones and more
- Expandable 200 memories each side with optional, CMU161
- CTCSS Encode\Decode standard
- Frequency steps, 5, 6.25, 10, 12.5, 15, 20, 25, 30, 50 and 100 kHz.
- Paging\Coded squelch
- DTMF autopatch dialing, 12 memories, 6 per side, 15 digits
  • Eight kinds of scan: 1 MHz,
- entire band, program, memory, block memory, program memory, memory scan memory and tone

#### DISPLAY

- Snap-on front display or remote the radio in the trunk or under the front seat
- Back-lit Keypad and Display
- MY key, store favorite function TX Time-Out-Timer 3, 5, 15 mins Auto power-off 3, 6, 9 hrs

- Auto mute opposite band -20dB Beep-tone off, low or high
- Cooling fan built-in.

Mobile bracket and power cord (2M) included

MARS and CAP modification available permit required FCC Approval pending

#### STANDARD C5900DA FEATURES

- · Tested tough against intermod with Double Balanced Mixer (DBM) and Tracking Front-End
- DTMF remote control with HT
- Cross-band repeat, 6M, 2M and 70cm with CTCSS encode/decode
- Full Duplex cross-band operation with CTCSS encode/decode
- 7 priority hyper frequencies
- 1200-9600 packet interface
- Antenna Triplexer Built-in one antenna for all bands
- Dual-frequency display; left side 6M, 2M and 70cm, right side 2M and 70cm
- Frequency Receive Range:

Left band 44.000 - 99.995 MHz 100.000 - 225.000 MHz

240.000 - 530.000 MHz Right band 100.000 - 200.000 MHz

260.000 - 510.000 MHz 550.000 - 1020.000 MHz\*

(both including AM aircraft) 45 Watts 6M, 50 Watts 2M and 35 Watts 70cm (3W Low, 10W Medium selectable) transmit ham-bands

\*cellular blocked on 800 MHz band



ANDA

For more information on this and other STANDARD products, please contact your nearest STANDARD dealer. Specifications, price and features are subject to change without obligation or notice. Standard Amateur Radio Products, Inc. P.O. Box 48480, Niles, Illinois 60714. Tel (312) 763-0081 Fax (312) 763-3377



#### SPECIFICATIONS STANDARD C5900DA TRI-BAND 6, 2 and 70 cm FM MOBILE TRANSCEIVER WITH DTMF REMOTE CONTROL

#### **GENERAL**

• Frequency Range:

44.000 Left band 99.995 MHz 100.000 225.000 MHz 240.000 530.000 MHz 100.000 Right band 200.000 MHz 260.000 510.000 MHz 550.000 1020.000 MHz\*

(both including AM aircraft)

Dual-frequency display; left side 6M, 2M and 70cm right side 2M and 70cm
 Tested tough against intermed with Double Balanced Mixer (DBM) and Tracking Front-End
 7 priority hyper fragrencies

priority hyper frequencies

7 priority hyper frequencies
1200-9600 packet interface
Antenna Triplexer Built-in one antenna for all bands
Memories: 80 memories (each side); stores frequency, offsets, CTCSS tones and more
Expandable 200 memories each side

Expandable 200 memories each side with optional, CMU161
CTCSS Encode\Decode standard
Frequency steps, 5, 6.25, 10, 12.5, 15, 20, 25, 30, 50 and 100 kHz
Paging\Coded squelch
DTMF autopatch dialing, 12 memories, 6 per band, 15 digits
Eight kinds of scan: 1 MHz, entire band, program, memory, block memory, program memory, memory scan memory and tone memory scan memory and tone

Back-lit Keypad and Display

Auto mute opposite band on receive -20dB
Cooling fan built-in

 Snap-on front display or remote the radio in the trunk or under the front seat

Full Duplex cross band operation

with CTCSS tones.

• DTMF remote control with HT

• Cross-band repeat, 6M, 2M and 70cm with CTCSS encode/decode

• MY key, store favorite function TX Time-Out-Timer 3, 5, 15 mins

Auto power-off 3, 6, 9 hrs
Beep-tone off, low or high
Size: 5.51"W 1.57"H 6.81"D

• Weight 2.65 lbs

Mobile bracket and power cable (2M) included MARS and CAP modification available (permit required) \*cellular blocked on 800 MHz band

#### RECEIVER

Receiver ........ Double Conversion Superhet
Intermediate frequencies 1st IF 2nd IF Left band 50 MHz 44.95 MHz 455 kHz Right band 144/450 MHz 144/450 MHz 44.95 MHz 23.05 MHz 455 kHz 455 kHz

• Sensitivity (within amateur bands)
Less than 0.251 uV (50.000-53.995 MHz)
Less than 0.224 uV (144-147.995 MHz)
Less than 0.251 uV (438.000-449.995 MHz)
• Audio Output 2 Watts into 4 ohms, 10% THD

• Operating Temp Range +60 to -20 deg C

#### TRANSMITTER

 6 Meters 45 Watts 6 Meters 45 watts
2 Meters 50 Watts
70 cm 35 Watts
(3W Low, 10W Medium selectable)
Type of Emission F2 and F3
Antenna Impedance 50 ohms

Spurious Emissions greater than 60dB Nominal Frequency Deviation 3.5 KHz Maximum Frequency Deviation 5.0 KHz Frequency Stability +/- 4ppm

Microphone input impedance 600 ohms

Transmit Power Consumption (approx) with 13.8 +/-15% VDC input: 50 MHz High <12.00A

Mid <5.85A Low < 4.35A 144 MHz High <12.00A Mid <5.85A Low <4.35A 450 MHz High <11.00A Mid <5.85A Low <4.35A Stand-by < 0.75A

THE C5900DA IS PACKET READY.

Designed with packet in mind. Out-of-the-box high-speed, 9600 baud, interface for all three bands. Just connect your TNC to the C5900DA and you're on the high speed packet network. Also, operates at 1200 and 2400 baud equally well.

#### **OPTIONAL ACCESSORIES**

Additional accessories available from your dealer.

CAW590 split cable for mic
CAW591 3M extension cable for LCD display

CAW592 5M extension cable with connections for mic and speaker
CAW593 8M extension cable with connections for

mic and speaker

CMB5900 mounting bracket for display
CMU161 200 channel memory chip

CSK12 Matching Speaker

For more information on this and other STANDARD products, please contact your nearest STANDARD dealer.

#### STANDARD AMATEUR RADIO PRODUCTS, INC.

P.O. Box 48480 Niles, Illinois 60714 

\* Specifications are guaranteed within the U.S. amateur bands. STANDARD reserves the right to discontinue products and change specifications at any time without incurring any obligation to incorporate new features into products previously sold. All products carry a full one year limited warranty from time of purchase.

# C156A

# STANDARD'S QUALITY! STANDARD'S FEATURES! EVERYBODY'S PRICE!

Standard's new C156A is indeed a hand-held that everyone can afford, yet it boasts all the user-friendly features that Standard users have come to expect. Take a look at the bright, clear Dot-Matrix display, with alpha-numeric ID as well as frequency, then look at these other features: • 100 Memory Channels plus CALL and VFO • CTCSS - 39 tones built-in • Battery Save 1, 2, 3, 4 or 5 Sec • Auto-Power-Off 30, 60, 90 or 120 min • Dual Watch mode • Scan - 1 MHz, All, Program, Memory, Block memory, Memory Scan Memory and CTCSS (with optional CTN115) and

much, much more! Comes with "AA" penlight cell pack, so you need never run out of battery. All this in a Standard - for under \$200! See your Standard dealer today

#### M03 SIMPLEX 146.5200

#### **SPECIFICATIONS**

- Frequency Coverage VHF RX 135.000-174.000 MHz TX 144.000-147.995 MHz\*
- $\bullet$  Frequency steps, 5, 10, 12.5, 15, 20, 25, 30 and 50 kHz

and you'll go home with a C156A in your pocket!

- Scan: Pause, Busy or Hold
- Store: Alpha-Numeric Titles, Repeater, Offset frequency,
- Paging, Code Squelch, Tone Encode; Tone Decode with optional CTN115
- Auto repeater offset
- Built-in 1750 Tone Burst
- PTT lock
- Keyboard lock
- Auto Squelch 8 settings
- TX Time-Out Timer
- Paging/Code Squelch
- Wake-up receive mode
- 9 DTMF memories
- 3 power levels: H, M, L
- Back-lighted display
- DTMF Paging and Coded Squelch
- Direct Frequency Input with Keypad
- Unsurpassed Intermod Rejection
- Size approx: 2.28" W, 4.92" H, 1.02" D; Weight approx: 10.6 oz
- C156A supplied with CBT156 dry battery case for 4 "AA" batteries. (batteries not included)
- \*CAP/Mars Transmit with appropriate Permit

#### **OPTIONAL ACCESSORIES**

CAW151B Power Cable for Base Station CAW152B Mobile Cord with Noise Filter CHP111 Head Set with PTT CHP150 Head Set with VOX CLC155 Soft Case (CNB155/156) CLC156 Soft Case (CBT156) CLC157 Soft Case CNB157/CBT158 CMB112 Mobile Bracket CMB600 Helmet Clip for CHP150 CMC150 Mobile Charger (CNB155/156/158) CMP111 Speaker Microphone CMP113 Tie-pin Speaker Microphone CMP115 Small Speaker Microphone CNB155 4.8V 600 mAh Small Battery (1.8 Watt Output) CNB156 6.0V 600 mAh Standard Battery (2.8 Watt Output) CNB157 9.6V 600 mAh High Power Battery (5 Watt Output) CNB158 6.0V 1200 mAh Long-life Battery (2.8 Watt Output) CSA181AB Desk Top Charger CTN115 CTCSS Decode module CWC156A Wall charger (CNB155/156/158) CWC151A Wall charger (CNB157)





For more information on this and other STANDARD products, please contact your nearest STANDARD dealer. Specifications, price and features are subject to change without obligation or notice. Standard Amateur Radio Products, Inc. P.O. Box 48480, Niles, Illinois 60714.

Tel (312) 763-0081 Fax (312) 763-3377





#### **SPECIFICATIONS**

#### C156A 2 Meter Hand-held

OLIVEIGE		
Frequency band:		
Frequency range: RX 135-174 MHz (approx)		
Frequency step: 5, 10, 12.5, 15, 20, 25, 30 and 50 kHz		
Modulation type:		
Dry battery case CBT156 supplied		
with C156A - uses 4 "AA"		
Operating voltage (battery terminals)4 - 15 VDC		
(using external supply) DC 4.5 to 16 VDC		
Microphone input impedance:500 ohms		

CENERAL.

Size (approximate): 2.28"W x 4.92"L x 1.02"D (with batt., w/o protrusions) Weight (approximate):

Dot-Matrix LCD & Menu Display

The new easy-to-read alphanumeric dot-matrix LCD. displays functions and settings for all operations. Scroll through and read the menu choices with ease.

#### TRANSMITTER

Frequency range:144-147.995 MHz
Power output - High power position (all approximate)
CBT1561.8W
CNB1551.8W
CNB156/158
CNB1575.0W
Output medium
Output low
Modulation system:Reactance modulation
Frequency deviation: 3.5 KHz (nominal), 5.0 KHz (max.)
Spurious signal ratio:greater than -60dB
Internal microphone: Electret condenser
MARS and CAP mods:Yes
Available from your dealer (copy of license reg'd)

For more information on this and other STANDARD products, please contact your nearest STANDARD dealer. STANDARD AMATEUR ŘADIO PRODUCTS, INC. P.O. Box 48480 Niles, Illinois 60714 Tel (312) 763-0081 Fax (312) 763-3377 \*Specifications are guaranteed within the U.S. amateur bands. STANDARD reserves the right to discontinue products and change specifications at any time without incurring any obligation to incorporate new features into products previously sold. All products carry a full one year limited warranty from time of purchase.

#### RECEIVER

Receiver:	.Double Conversion Superhet
First IF:	
	455 KHz
Sensitivity (ham bands):	0.158 uV for 12dB SINAD
Signal-to-noise ratio (at 0.5uV	'input):30dB or better
Squelch sensitivity:	0.1 uV
Speaker impedance:	8 ohms
Audio output (into 8 ohms):	250mW, 10% THD
Message Function: A memor	ized message can be recalled
when the selected message of	
	re are a total of 19 messages,
10 are fixed and 9 can be cus	tomized. The 10 fixed
messages are as follows:	

00 Emergency 01 Call me!

05 Decide!

02 Change frequency

06 Where you're now 07 Will call later!

03 Come together! 04 I'm late

08 Thank you! 09 Bye Bye!

10-18 customized

#### OPTIONAL ACCESSORIES

CAW151B Power cable for base station CAW152B Mobile cord with noise filter

CHP111 Head Set with PTT CHP150 Head Set with VOX

CLC155 Soft case (CNB155/156) CLC156 Soft case (CBT156)

CLC157 Soft case CNB157/CBT158

CMB112 Mobile Bracket

CMB600 Helmet Clip for CHP150

CMC150 Mobile charger (CNB155/156/158)

CMP111 Speaker Microphone CMP113 Tie-pin Speaker Microphone

CMP115 Small Speaker Microphone

CNB155 4.8V 600 mAh 1.8 watt small battery

CNB156 6.0V 600 mAh 2.8 standard battery

CNB157 9.6V 600 mAh 5 watt high power battery

CNB158 6.0V 1200 mAh 2.8 watt long-life battery

CSA181A Desk Top Charger

CTN115 CTCSS Decode module

CWC156A Wall charger (CNB155/156/158)

CWC151A Wall charger (CNB157)

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